BOARD MEETING DATE: May 3, 2013 AGENDA NO. 24

REPORT: Technology Committee

SYNOPSIS: The Technology Committee met on April 19, 2013. Major topics

included Technology Advancement items reflected in the regular Board Agenda for the May Board meeting. A summary of these topics with the Committee's comments is provided. The next Technology Committee meeting will be on May 17, 2013.

RECOMMENDED ACTION:

Receive and file.

John J. Benoit Technology Committee Chair

MMM:pmk

Attendance: Mayor Pro Tem Judith Mitchell and Mayor Dennis Yates were in attendance at SCAQMD headquarters. Supervisor John J. Benoit, Councilwoman Jan Perry, and Mayor Miguel Pulido participated by videoconference.

MAY BOARD AGENDA ITEMS

1. Execute Contract for Natural Gas Vehicle Replacements under AB 1318

In January 2013, the Board approved awards for emission reduction projects in the Coachella Valley as part of the AB 1318 Mitigation Fund Program. As part of the Board action, an award was made to FIND Food Bank, Inc. for the purchase of a diesel-powered truck and a gasoline-powered van to be used for food pick-up and delivery. FIND Food Bank, Inc. has expressed interest in natural gas-powered vehicles. This action is to augment the FIND Food Bank, Inc. award to cover the purchase of dedicated natural gas-powered vehicles, rather than the proposed diesel or gasoline vehicles, in an amount not to exceed \$140,000 from the interest accrued from the Environmental Justice area allocation in the AB 1318 Mitigation Fees Fund (58).

Moved by Benoit; seconded by Mitchell; unanimously approved.

2. Adopt Resolution Recognizing Additional Funds for FY 2012-13 Carl Moyer Program, Execute and Amend Contracts under Carl Moyer Program and SOON Provision and Transfer Funds

At its March 1, 2013 meeting, the Board adopted a resolution recognizing \$23,161,486 in FY 2012-13 Carl Moyer Program grant funds. Since then, CARB has informed staff that additional funds are available. This action is to adopt a resolution recognizing \$23,229,938 in FY 2012-13 Carl Moyer Program funds, superseding the previous resolution with \$68,452 in additional funds. These actions are also to execute contracts under the Carl Moyer Program and the SOON Provision in an amount not to exceed \$4,566,490 from the Carl Moyer Program AB 923 Fund (80), to amend awards under the SOON Provision to increase funding in an amount not to exceed \$1,605,221 from the Carl Moyer Program SB 1107 Fund (32), and to transfer up to \$3 million in project funds from the Carl Moyer Program AB 923 Fund (80) to the VIP Fund (59) for implementation of truck projects.

Staff stated that Supervisor Benoit proposed to add a limit of 15% for the Executive Officer to accept additional Carl Moyer funds relative to the initial amount allocated by CARB and adopted by the Board through a resolution.

Moved by Pulido; seconded by Benoit; unanimously approved.

3. Issue RFP for On-Road Heavy-Duty Development, Integration, and Demonstration of Ultra-Low Emission Natural Gas Engines

The development and commercialization of low emission, heavy-duty truck technologies remains a critical component for achieving the federal ambient air quality standards for the South Coast Air Basin. There is a need to develop a new generation of on-road heavy-duty engines that could potentially achieve an additional 90% reduction in NOx exhaust emissions. This proposed action is to issue an RFP to develop ultra-low emission on-road heavy-duty natural gas engines.

Mayor Pro Tem Mitchell asked if any entities will be targeted for this RFP. Staff answered that SCAQMD will contact engine manufacturers, such as Cummins Westport and Volvo, who are already working in this area.

Supervisor Benoit asked what percentage of the current truck operating fleets have 2010 emission compliant engines and how long it will take to replace the existing 2007 engines. Staff answered that about 30% of the trucks have 2010 engines and the average life of these vehicles is about 12 years.

Mayor Yates mentioned that most engines in operating fleets are model year 2007.

Moved by Yates; seconded by Mitchell; unanimously approved.

ITEMS FOR DISCUSSION ONLY

4. Update on RFP #P2012-15 – Development and Demonstration of Linear Motor Goods Movement System (presentation only)

RFP #P2012-15 was closed on March 16, 2012 for the development and demonstration of a zero-emission goods movement system using either linear synchronous motor (LSM) or linear induction motor (LIM) technology. Staff provided a discussion on the status of this proposed project and why the three bids received did not merit funding.

Mr. Jesse Marquez (Coalition for a Safe Environment) requested that all three projects be funded. He stated that LIM technology can be easily retrofitted to existing railroad tracks. He also indicated that there are many empty locations at the ports where such demonstration projects can be implemented.

Mayor Pro Tem Mitchell mentioned that Dave Cook (Energy Conversions) contacted her on this issue and that the SCAQMD will review these technologies submitted under the RFP and invited Mr. Marquez to join SCAQMD staff in further discussions.

Supervisor Benoit asked which technical approaches were not in alignment with the program's objectives and requirements. Staff mentioned that the proposals that were submitted in response to the RFP did not integrate well with current port operations and did not fit current operating requirements at the ports. BM Benoit added that the catenary truck project provides more flexibility as compared to these three proposals.

5. Issue RFP for Demonstration of Low-Emission Outdoor Open-Burning Public Beach-Type Fire Pit Rings (RFP and presentation only)

There is ample evidence in the scientific literature regarding the adverse health effects associated with open burning of wood and other biomass fuels. Almost 700 beach fire pits are known to be active in the South Coast Air Basin beaches. This RFP is being released as part of an effort to identify and demonstrate alternative low-emission outdoor open-burning public beach-type fire pit rings and/or low-emission retrofit equipment and devices for existing outdoor open-burning beach-type fire pit rings.

This item was pulled by the Technology Committee Chairman to be discussed and considered at the June 7th Board Meeting.

6. Other Business

Any member of the committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification; may make a brief announcement or report on his or her own activities, provide a reference to

staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Govt Code Section 54954.2)

7. Public Comment Period

Members of the public may address this body concerning any agenda item before or during consideration of that item (Govt. Code Section 54954.3). All agendas for regular meetings are posted at District Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of a regular meeting. At the end of the regular meeting agenda, an opportunity is also provided for the public to speak on any subject within this body's authority. Speakers may be limited to three (3) minutes each.

Ms. Rita Loof (Director of Environmental Affairs-RadTech International) stated that most demonstration funds from the committee were focused on mobile sources. She recommends that some funding be dedicated for demonstration projects to reduce emissions from stationary sources. As adhesive products and graphic arts rules are going before the Board later this year, Ms. Loof requested incentives in these areas.

Mr. Jesse Marquez requested SCAQMD staff to consider conducting the following studies: (1) shoreside on-dock rail, (2) fuel cells in port applications in the areas of shorepower, locomotives, and lighting applications, and (3) container grid stacking systems.

Next Meeting: May 17, 2013 at SCAQMD Headquarters in CC-8

Attachments

Attendance

Attachment A – Attendance

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Supervisor John J. Benoit	
Mayor Pro Tem Judith Mitchell	_
Councilwoman Jan Perry	_
Mayor Miguel Pulido	
Mayor Dennis Yates	_
Mark Abramowitz	` • /
Buford Crites	` ' '
Marisa Perez	· · · · · · · · · · · · · · · · · · ·
Bob Ulloa	` /
Barry Wallerstein, Executive Officer	
John Olvera, Principal Deputy District Counsel	SCAQMD
Matt Miyasato, STA	SCAQMD
Philip Fine, STA	SCAQMD
Henry Hogo, STA	SCAQMD
Fred Minassian, STA	SCAQMD
Lourdes Cordova Martinez, STA	SCAQMD
Randall Pasek, STA	SCAQMD
Dean Saito, STA	SCAQMD
Dipankar Sarkar, STA	SCAQMD
Al Baez, STA	SCAQMD
Phil Barroca, STA	SCAQMD
Brian Choe, STA	SCAQMD
Jeff Cox, STA	SCAQMD
Lisa Mirisola, STA	SCAQMD
Adewale Oshinuga, STA	SCAQMD
Sam Atwood, Media	
Kevin Durkee, PRDAS	SCAQMD
Tracy Goss, PRDAS	
Jean Ospital, PRDAS	SCAQMD
Paul Wright, IM	_
Drue Hargis, STA	
Pat Krayser, STA	
Donna Vernon, STA	_
Danielle Robinson	
Susan Stark	
Dan Witzling	
Adam Ward	
Chad Negrete	
Paul Ryan	
Heather Tomley	
Barbara Peters	
Rita Loof	
Danielle Fasse	
Candice Gant	
Tom Gross	
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